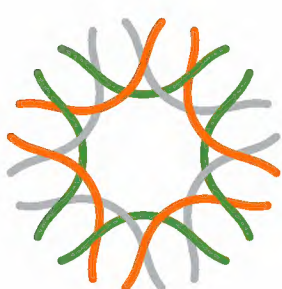




life.changing.

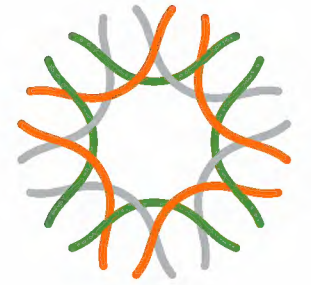


California
Academy
of Sciences
2010 Annual Report









At the California Academy of Sciences, life changes every single day. And the 365 days of 2010, full of discovery and wonder, were no exception.

In one year, the trees in our rainforest grew an average of 12 inches. Our scientists added more than 114,000 specimens to our research collections—and discovered 113 new species. To the delight of thousands of wide-eyed children, a pair of reindeer visited for the holidays. And more than 100 green mantella frogs—a critically endangered species—hatched through our Species Survival Plan breeding program.

These were just a few of the changes to the fabric of life at the Academy during a year in which our work became more urgent than ever. Ours is an era of extraordinary change on many fronts, from technology to ecology—change that will shape our lives and the footprint we leave for the future. The Academy's mission is to positively impact that future by shifting the way people think, act, and relate to the natural world today.

As Academy friends know, another change over the last year was the untimely passing of Bill Patterson. As chairman of the

board of trustees from 2007 to 2010, Bill helped lead the Academy into a landmark new home. Brilliant, gracious, and passionate, Bill was both dynamo and dreamer, the kind of person who could—and did—change the world. The Academy he championed will be a guiding force in the years ahead—changing lives in changing times.

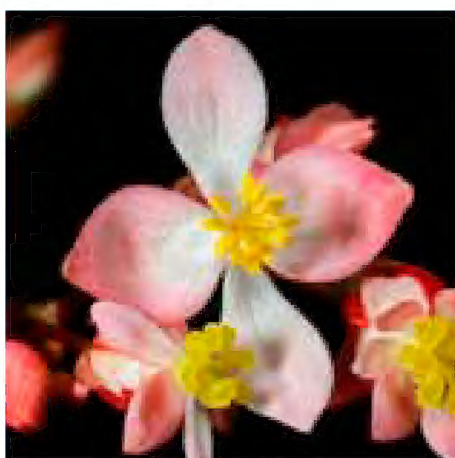
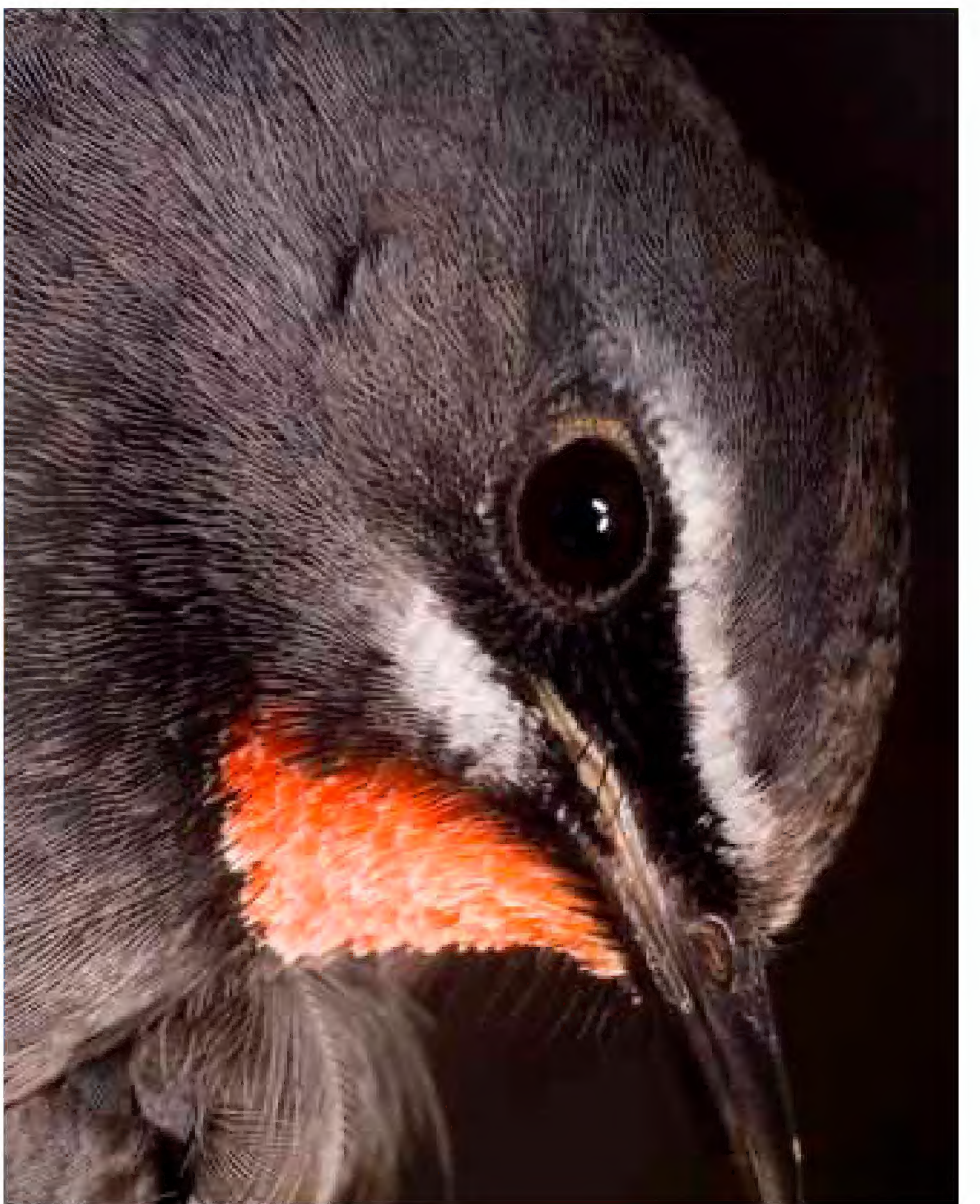
Life. Changing. That's the theme of our report for 2010. It describes the challenging era in which we live, and the challenge we face as an institution committed to shaping attitudes through the power of research, education and unforgettable experiences. If you've played a part of our mission, thank you! With your support, we will continue to make every visit to Academy truly transformational.

Dr. Greg Farrington

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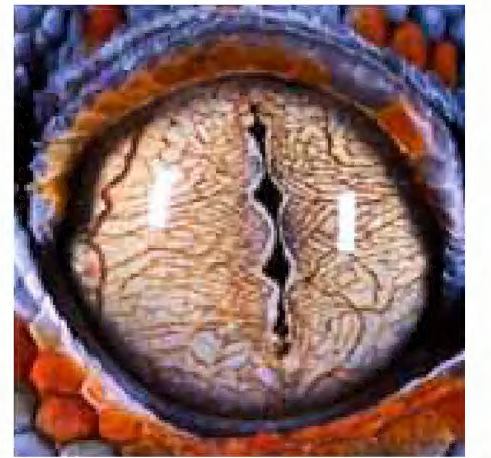
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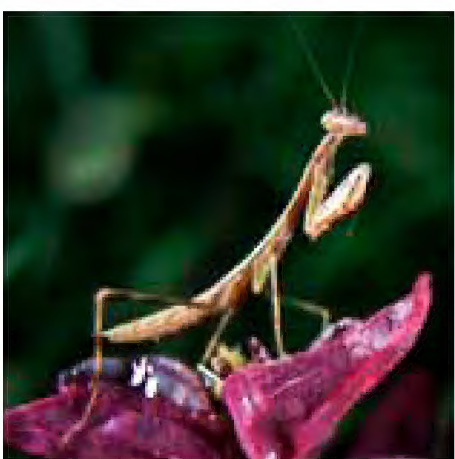
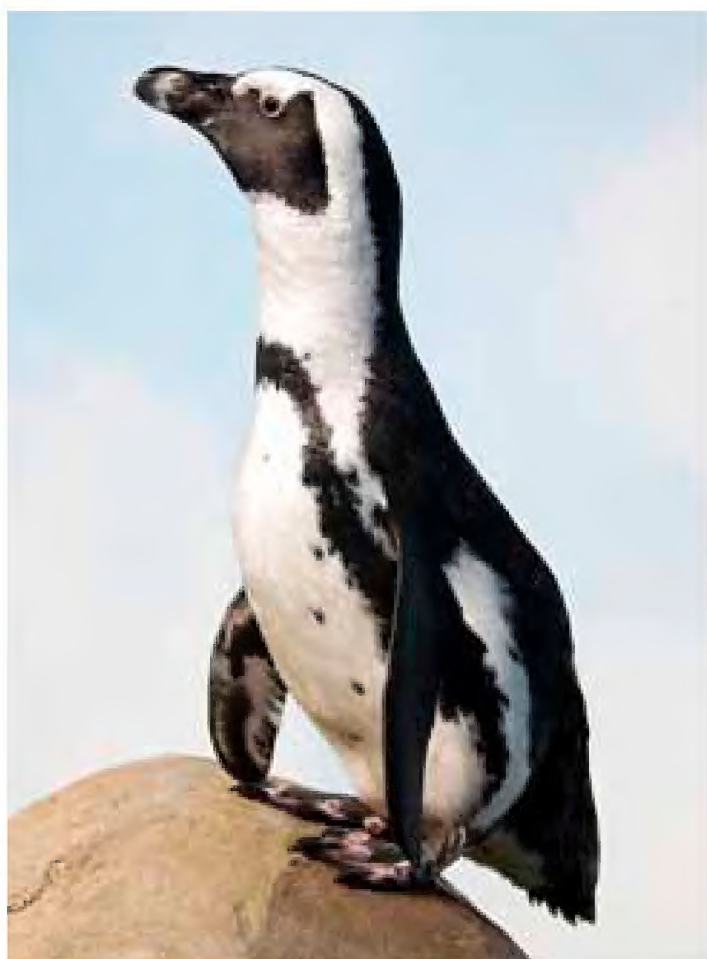
life.changing.



We inhabit a Universe in constant flux—aging, evolving, expanding. In fact, the nature of life itself is change.

Today, however, the change around us is accelerating, endangering our planet and our way of life. Plant and animal species are vanishing at a rate unmatched since the age of the dinosaurs. Precious natural resources are dwindling. And people are divorced from science at a time when science is more important than ever.

What will it take to navigate tumultuous change and preserve life on Earth as we know it? It will take a commitment to discovery, and to making new knowledge relevant to people of all ages. It will take passion—the kind that inspires respect for the natural wonders that surround us. A look at the events of 2010 reveals compelling evidence that the Academy is up to the task.



965 scientists and students visited the Academy's research collections in 2010.

3,607 birds in the Academy collections were used to track the spread of avian pox.



Over 114,000 new specimens were added to the Academy's library of life.

Over 300 Academy specimens helped scientists chart an emerging amphibian disease in Asia.

Changing times

Never in human history has our global ecosystem undergone a period of such dramatic transformation. That urgency guides Academy scientists as they document Earth's threatened biodiversity and share their discoveries.

Just think: Scientists say they have identified less than 10 percent of the species in the interconnected web of life on Earth. Many species will disappear before we know their names, their ecological roles, or what they have to teach us. Last year, such projections motivated more than a dozen Academy expeditions to biodiversity hot spots around the globe, where our scientists uncovered more than 100 new animals and plants, created species distribution maps, and advanced our understanding

of life's diverse manifestations. Their mission: discover, document, and protect as many unknown species as possible before they vanish. Meanwhile, back in Golden Gate Park, where the Academy maintains a library of more than 26 million specimens (38,000 of them living), our scientists provided data to guide conservation decisions that will shape our lives and the future of our planet as we address a changing climate and other ecological challenges.

2010 RESEARCH HEADLINES

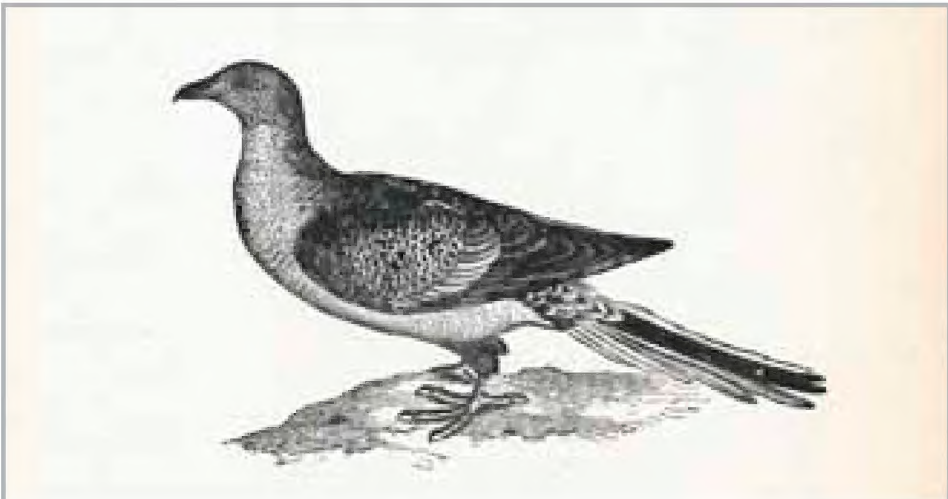
INVERTEBRATE ZOOLOGY & GEOLOGY

Academy researcher Peter Roopnarine launched a study to determine how harmful compounds from the Deepwater Horizon oil spill are affecting the **Gulf of Mexico's marine food web**.



CENTER FOR COMPARATIVE GENOMICS

Academy DNA analysis revealed complex evolutionary forces behind the **daredevil tactics of the mimic octopus**, which escapes predators by impersonating other creatures.



ORNITHOLOGY & MAMMALOLOGY

Dr. Jack Dumbacher and colleagues used century-old Academy specimens to find **a place for the extinct passenger pigeon** in the family tree of pigeons and doves.



BOTANY

Several members of the **shrimp plant family** have proven effective in treating Asthma. Academy botanist Tom Daniel documented two new members of this family from Guatemala.

AQUATIC BIOLOGY

Dr. John McCosker and colleagues expanded the Academy's world-leading collection of Galapagos Islands specimens with the discovery of a **new species of scorpionfish** (*Scorpaenodes rubrivinctus*).



ANTHROPOLOGY

Dr. Zeray Alemseged discovered evidence in Ethiopia that **human ancestors were using stone tools and consuming meat from large mammals** nearly a million years earlier than previously documented.



ENTOMOLOGY

Academy arachnologists used sophisticated DNA sequencing to identify a **new family of spiders**, Penstomidae, helping to fill in another branch of the tree of life.



CENTER FOR APPLIED BIODIVERSITY INFORMATICS

An Academy team charted the **velocity of climate change worldwide**, finding that, on average, ecosystems will need to shift about a quarter-mile per year to keep pace with warming temperatures.



ICHTHYOLOGY

Academy scientists surveyed and documented **the fish off the coast of São Tomé and Príncipe**, an area that is about to be transformed by oil drilling.

HERPETOLOGY

Academy scientists completed a **13-year survey of the reptiles and amphibians of Myanmar**, uncovering dozens of new species—creatures threatened by habitat loss and use as food and folk medicine.



40 Careers in Science
interns logged 13,000
hours learning and
teaching science

60 teachers from 24
schools participated in
the Teacher Institute
on Science and
Sustainability

Up to 720 students
visit the Academy on
a typical school day.

More than 1,000
Teacher Workshop
participants added
new hands-on
activities to their
science curricula

Classroom kits
helped nearly 8,000
students learn
about evolution,
biodiversity, and
conservation

Open minds

The Universe is in our hands.
How can we cultivate the
knowledge and the passion
necessary to steward it?
Through education programs
that immerse people of all ages
in natural-world wonders and
open minds to science.

At the Academy, we know that life-changing relationships with the natural world begin with a sense of wonder. And for many, wonder grows with a childhood visit to the Academy. In 2010, thousands of kids, ages 5 through 18, got closer to the Universe on a school field trip to the Academy. Once inside, they were transformed into virtual space travelers, exploring the Solar System through special planetarium shows, or rainforest explorers, studying Borneo's bat caves or a flooded Amazonian

landscape. They became biologists, peering at the world through a microscope in the Academy's Koret-Taube Education Center. But the learning didn't stop there. Back in the classroom, teachers, inspired by Academy workshops and seminars, used Academy lesson plans and classroom kits to keep science alive and relevant. And young people from diverse backgrounds became Careers in Science interns—changing their own futures.

Photo: Students from the Academy's Rock Program for Enhanced Museum Visits pose during a break in activities in the Classroom.

To learn more about supporting these programs, visit www.calacademy.org/cs2011/education

2010 EDUCATION PROGRAMS



Field Trips

San Francisco school groups can visit the Academy for free, and other California school groups are eligible for significantly discounted admission.



Planetarium Student Shows

Students in 3rd to 8th grades can visit the Moon, Mars, and the rest of the Solar System inside the world's largest all-digital planetarium.

Careers in Science

This internship program for high school and college students celebrated its 14th year in 2010.



Rock Program

The Arthur and Toni Rembe Rock Enhanced Museum Visits for Students program supports 4th and 5th grade field trips from San Francisco schools, providing free transportation, admission, and educational materials.



Classroom Kits

These portable containers are filled with all the materials a teacher needs to do fun, engaging science activities in the classroom. They include complete lesson plans and background information on a wide range of topics. Hands-on activities, educational games, books, DVDs, and more provide a range of learning opportunities.



Lesson Plans

Teachers can choose from more than 90 standards-based lesson plans.



Student Labs

Ninety-minute lessons in the Education Lab focus on microscopes, geology, the scientific method, electricity, and ocean chemistry.



Teacher Institute on Science and Sustainability

The Teacher Institute on Science and Sustainability is an intensive two-year professional development opportunity for 3rd- to 5th-grade teachers, in which they learn how to incorporate sustainability themes into their science curriculum. TISS participants receive an annual stipend, a membership to the Academy, a class set of science journals, classroom support, and more.





500 docents engage with visitors on the public floor.

6,500 questions were fielded at the Naturalist Center during the year.

The Golden Gate Park iPhone app has been downloaded 35,000 times.

More than 1.5 million people visited the Academy in 2010.

Transformed lives

Only at the Academy can you time-travel to the birth of the planets, adopt a penguin, experience four rainforests at once, and learn how what you eat affects the health of the planet. Arrive open to adventure. Leave inspired to live differently.

Although we work on a global scale—championing biodiversity, sharing new knowledge, modeling sustainability in the world’s largest LEED Platinum public building—the most important changes at the Academy happen one life at a time. And they begin with the kind of immersive experience, sparking curiosity and wonder, that’s possible only when visitors are able to interact with some of nature’s best ambassadors—charismatic live animals and the people who are passionate about studying

and caring for them. In 2010, the Academy cultivated positive change by helping people of all ages make eye-opening connections, whether between a penguin and his threatened habitat, or between personal choices—local produce or imported? compost or landfill?—and Earth’s future. Our goal is nothing less than changing the way we, as a species, inhabit our home planet, catalyzing the evolution of human attitudes and behaviors while we explore the nature of our changing world.

Photo: One of the Academy’s most popular exhibits, the Philippine Coral Reef tank hosts thousands of colorful fishes and dozens of species of coral.

To learn more about supporting these programs, visit www.calacademy.org/cs2011/exhibits

2010 MUSEUM HIGHLIGHTS

January

The “**Live Birds of Prey**” program allows visitors to meet live raptors.



March

Academy scientist **Jack Dumbacher** gives a lecture about his research in Papua New Guinea.

May

Pierre the Penguin children’s book hits bookstores nationwide.



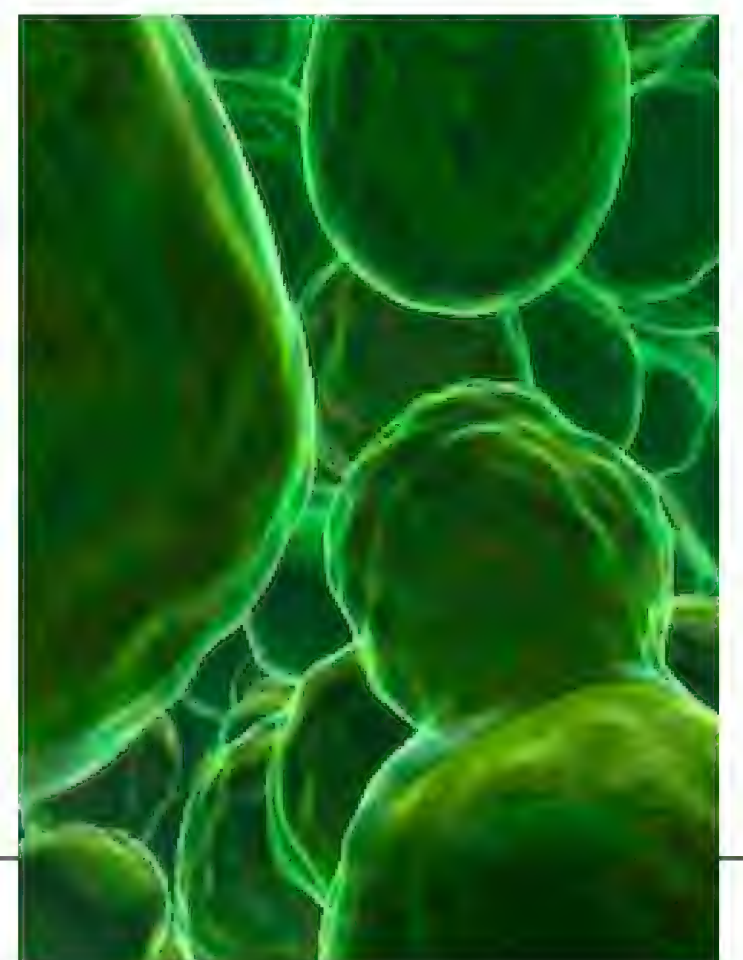
August

The Naturalist Center invites “citizen scientists” to participate in the **Bay Area Ant Survey**.



September

Claude, the albino alligator, turns 15. Visitors help make fish-flavored cupcakes for him.



November

Life: A Cosmic Story debuts in the planetarium, and the Academy launches the **Golden Gate Park iPhone app**.



February

Docents delight visitors during a Valentine's Day "**Sex and Science**" tour.

April

Extreme Mammals: The Biggest, Smallest, and Most Amazing Mammals of All Time opens.

June

The Academy celebrates World Oceans Day with the debut of "**Ocean Voices**."



July

NASA Scientist **Gordon Squires** lectures about the latest discoveries made by space telescopes.



October

The Academy debuts a film and exhibit about the **Farallon Islands**.



December

'Tis the Season for Science opens, complete with snow flurries in the Piazza and two live reindeer in the East Garden.



Donors

A fast-changing world makes the Academy's mission ever more urgent. The generosity of community partners brings that mission to life—for that, the Academy is deeply grateful.

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\$100,000+

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A community is only as healthy as its individual members. Academy scientists discovered over 100 new plant and animal species in 2010. They are listed here.

Calibelemnon sp.
Chimaera bahamaensis
Chimaera notaficana
Chlaenius rotundithorax
Contia longicaudae
Cruriraja hulleyi
Darkoneta quetzal
Darkoneta reddelli
Draconarius adnatus
Draconarius anceps

sea pen
ghostshark
ghostshark
beetle
sharp-tailed snake
skate
spider (also new genus)
spider (also new genus)
spider
spider

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* Indicates donors who made an additional \$10,000+ gift to the Campaign for the New Academy in calendar year 2010.



Executive Director Greg Farrington with Gretchen Kimball.

When my husband, Bill, and I made the lead gift to the Academy's campaign in 2003, we had no idea the new Academy would prove to be so popular. Now it's such a joy to walk through the Kimball Natural History Museum and see people of all ages enjoying the wonderful exhibits.

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<i>Draconarius catillus</i>	spider	<i>Draconarius levyi</i>	spider
<i>Draconarius curvus</i>	spider	<i>Draconarius longlingensis</i>	spider
<i>Draconarius duplus</i>	spider	<i>Draconarius mikrommatos</i>	spider
<i>Draconarius euryembolus</i>	spider	<i>Draconarius olorinus</i>	spider
<i>Draconarius gigas</i>	spider	<i>Draconarius paraspinalis</i>	spider
<i>Draconarius guoi</i>	spider	<i>Draconarius pseudoagrestis</i>	spider
<i>Draconarius improprius</i>	spider	<i>Draconarius pseudospinalis</i>	spider
<i>Draconarius kavanaughii</i>	spider	<i>Draconarius quattuor</i>	spider
<i>Draconarius laticavus</i>	spider	<i>Draconarius renalis</i>	spider
<i>Draconarius latusincertus</i>	spider	<i>Draconarius spiralis</i>	spider

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Draconarius tangi
Draconarius tridens
Draconarius xuae
Draconarius yani
Enhyriodon dikikae
Eviota karaspila
Eviota nigrispina
Eviota rubrisparsa
Eviota shimadai
Eviota toshiyuki

spider
spider
spider
spider
otter
goby fish
goby fish
goby fish
goby fish
goby fish

Eviota winterbottomi
Flabellina goddardi
Justicia velizii
Nippononebria changbaiensis
Nitela constructor
Okenia felis
Ophichthus alleni
Ophichthus aniptocheilos
Ophichthus congroides
Ophichthus hirritus

goby fish
sea slug
herb/shrub
beetle
wasp
sea slug
eel
eel
eel
eel

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Ophichthus humanni eel
Ophichthus ishiyamorum eel
Ophichthus lentiginosus eel
Ophichthus microstictus eel
Ophichthus tomioi eel
Pandava ganesha spider
Pandava ganga spider
Pandava kama spider
Pandava sarasvati spider
Pandava shiva spider

Paraparatrechina brunnella ant
Paraparatrechina concinnata ant
Paraparatrechina gnoma ant
Paraparatrechina myops ant
Paraparatrechina ocellatula ant
Paraparatrechina oreias ant
Paraparatrechina splendida ant
Paraparatrechina umbranatis ant
Penestomus egazini spider (also new family)
Penestomus kruger spider (also new family)

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Penestomus montanus
Penestomus prendinii
Penestomus zulu
Pinnatella homiadelphoides
Porcupinella profunda
Rhopalum nasale
Scorpaenodes rubrivinctus
Sericophorus ambonensis
Sericophorus arremnte
Sericophorus barakula

spider (also new family)
spider (also new family)
spider (also new family)
moss
sea pen
wasp
scorpionfish
wasp
wasp
wasp

Sericophorus bicellularis
Sericophorus centralis
Sericophorus chrysophorus
Sericophorus deserticola
Sericophorus flavipes
Sericophorus flavorufoniger
Sericophorus genalis
Sericophorus glaucus
Sericophorus glyptus
Sericophorus karraathensis

wasp
wasp
wasp
wasp
wasp
wasp
wasp
wasp
wasp
wasp

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Sericophorus mesopleuralis wasp
Sericophorus mimus wasp
Sericophorus minys wasp
Sericophorus multipictus wasp
Sericophorus nasutus wasp
Sericophorus nitidus wasp
Sericophorus papuanus wasp
Sericophorus punctatum wasp

Sericophorus riparius wasp
Sericophorus rufus wasp
Sericophorus scintillans wasp
Sericophorus sparsus wasp
Sericophorus tibialis wasp
Sericophorus trichocephalus wasp
Sericophorus xanthomelas wasp
Squalus suckleyi spiny dogfish
Xylosandrus borneensis beetle
Xylosandrus hulcri beetle

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The 2010 Fellows Medal

The California Academy of Sciences Fellows Medal is given annually to especially prominent scientists who have made outstanding contributions to their specific scientific fields. On October 5, the 2010 medal was presented to **Dr. Marvalee H. Wake**, Professor of the Graduate School in the Department of Integrative Biology at the University of California, Berkeley. She was honored for her contributions to the study of evolutionary morphology, development, and reproductive biology in vertebrates.

Donald C. Potts, Invertebrate Zoology
Jerry A. Powell, Entomology
Thomas M. Powell, Oceanography, Limnology, Aquatic Biology
Mary E. Power, Ecology of Riverine Systems
Wojciech J. Pulawski, Entomology
Alexander H. Purcell, Entomology
Peter R. Raimondi, Marine Ecology
Janet Randall, Mammalogy
Marshall J. Reed, Geology
Vincent H. Resh, Aquatic Biology
Don Reynolds, Botany
Wynetka A. Reynolds, Zoology
Peter Richerson, Cultural Evolution
John W. Rick, Archaeology & Paleocology
Bruce Robison, Deep-Sea Biology
Peter U. Rodda, Geology
Barbara Rogoff, Developmental Psychology
Peter Roopnarine, Invertebrate Paleontology
Terry L. Root, Climate Change Sensitivity of Vertebrates
Barry Roth, Malacology & Paleontology
Lynn Rothschild, Astrobiology & Evolutionary Protistology
Joan E. Roughgarden, Herpetology
Eric Routman, Herpetology
Bruce Runnegar, Geology & Paleontology
Robert Sapolsky, Neuroendocrinology
Vincent M. Sarich, Anthropology
Jose Sarukhan, Botany
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Eugenie C. Scott, Anthropology
Erwin Seibel, Oceanography
H. Bradley Shaffer, Herpetology
Arthur Shapiro, Evolution & Ecology
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Seth Shostak, Astronomy
Neil Shubin, Evolutionary Biology
Petra Sierwald, Entomology
Mary Silver, Biological Oceanography
Ellen L. Simms, Botany
Barry R. Sinervo, Ecology
Arthur Smith, Entomology
Edmund H. Smith, Invertebrate Zoology
Thomas B. Smith, Ecology

George Somero, Evolutionary Biochemistry
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Howard Spero, Paleoceanography
Gregory Spicer, Evolutionary Biology, Molecular Systematics
Maureen L. Stanton, Population Biology
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Hilgard O. Sternberg, Geography
Scott W. Stine, Geography
David Stoddart, Geography
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Stanley C. Williams, Entomology

Susan L. Williams, Marine Ecology
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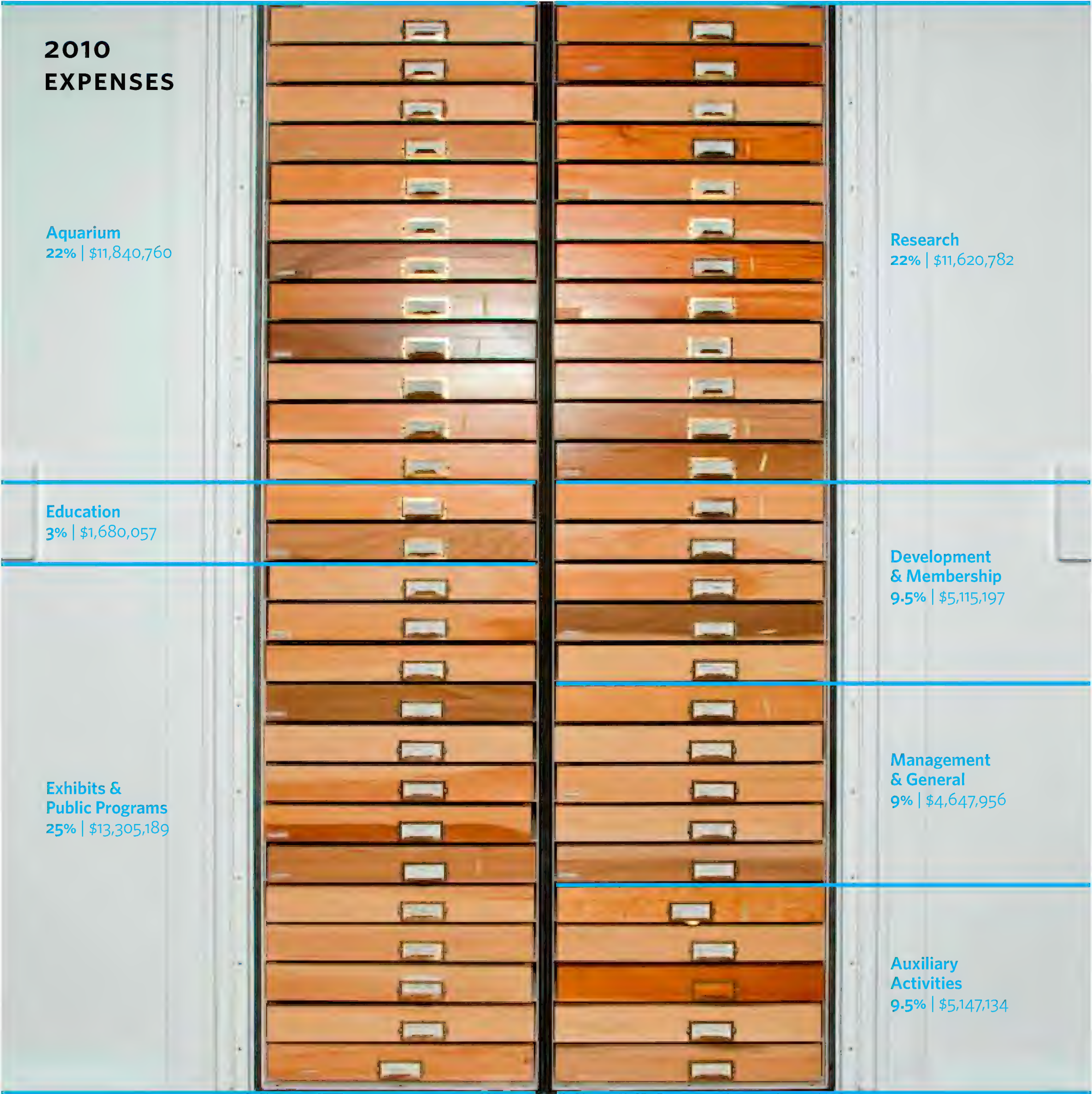
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Financial report

The Academy's financial performance reveals an institution committed to careful stewardship of resources and growth, sustaining research and public engagement for generations.



Photos: A glimpse into the Academy's entomology collections. On the left, a selection of various specimens. On the right, a cabinet of recently collected Madagascar ants.



Revenues and Expense

Revenue	2010	2009
Earned Revenue	26,004,039	24,600,106
Contributions & Membership	14,866,897	15,852,167
Government Grants	5,363,622	8,032,412
Investment Income	7,144,207	(14,901,325)
Net assets released from restrictions	6,430,493	5,079,824
Total Revenue	59,809,258	38,663,184
Expenses		
Research	11,620,782	12,276,837
Exhibits & Public Programs	13,305,189	12,730,521
Aquarium	11,840,760	13,086,725
Education	1,680,057	1,841,226
Development & Membership	5,115,197	5,926,651
Auxiliary Activities	5,147,134	4,972,203
Management & General	4,467,956	3,187,791
Total Expenses	53,177,075	54,021,954

Financial Position

Assets	2010	2009	
Investments	156,601,006	143,693,326	
Receivables	4,994,973	7,749,062	
Other	1,064,827	1,309,725	
Total Assets	162,660,806	152,752,113	
Liabilities			
Accounts Payable	5,488,524	6,650,890	
Deferred Income	3,581,957	6,076,340	
Other Long-term Liabilities	287,745	229,692	
Total Liabilities	9,358,226	12,956,922	
Unrestricted Net Assets	67,760,327	61,688,007	
Temporarily Restricted	24,252,551	20,508,192	
Permanently Restricted	61,289,702	57,598,992	
Total Net Assets	153,302,580	139,795,191	
Total Liabilities & Net Assets	162,660,806	152,752,113	9,908,693

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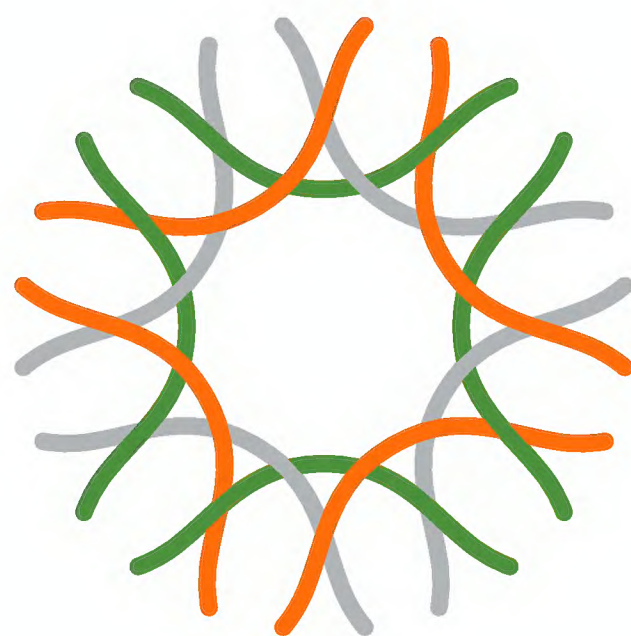
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